UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

**EXAMINER** 

## NOTICE OF ALLOWANCE AND FEE(S) DUE

24309

XILINX, INC

2100 LOGIC DR

SAN JOSE, CA 95124

7590

03/21/2008

ATTN: LEGAL DEPARTMENT

COX, CASSANDRA F

PAPER NUMBER

ART UNIT 2816

DATE MAILED: 03/21/2008

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/792.055 03/02/2004 Wei Guang Lu X-1556 US 4741

TITLE OF INVENTION: DIGITAL HIGH SPEED PROGRAMMABLE DELAYED LOCKED LOOP

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$0	\$0	\$1440	06/23/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current **SMALL ENTITY status:** 

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

#### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

appropriate. All further indicated unless correct maintenance fee notifica	correspondence including delow or directed off tions.	ng the Patent, advance on herwise in Block 1, by (a	rders and notification of a specifying a new corre	naintenance fees v spondence address	vill be ; and/or	mailed to the current of (b) indicating a separ	correspondence address as ate "FEE ADDRESS" for
CURRENT CORRESPOND	Fee pap	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, mus have its own certificate of mailing or transmission.					
2100 LOGIC DI			Certificate of Mailing or Transmission  I hereby certify that this Fee(s) Transmittal is being deposited with the U States Postal Service with sufficient postage for first class mail in an env addressed to the Mail Stop ISSUE FEE address above, or being facs transmitted to the USPTO (571) 273-2885, on the date indicated below.				
SAN JOSE, CA	95124						(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/792,055	03/02/2004	•	Wei Guang Lu	X-1556 US		X-1556 US	4741
TITLE OF INVENTION	: DIGITAL HIGH SPEE	ED PROGRAMMABLE I	DELAYED LOCKED LO	OP			
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$0	\$0		\$1440	06/23/2008
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
COX, CAS	SANDRA F	2816	327-161000				
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required.  3. ASSIGNEE NAME A PLEASE NOTE: Uni	ondence address (or Cha B/122) attached. ication (or "Fee Address 12 or more recent) attach ND RESIDENCE DATA less an assignee is ident	"Indication form led. Use of a Customer  A TO BE PRINTED ON ified below, no assignee	2. For printing on the p  (1) the names of up to or agents OR, alternati  (2) the name of a singing registered attorney or 2 registered patent attorney on the patent attorney or a substitute for filing an abstitute for filing an answer of the patent and the pat	o 3 registered pater vely, le firm (having as a agent) and the nam rneys or agents. If printed.	nt attorn n memb nes of u no nam	er a 2 p to ee is 3	cument has been filed for
Please check the appropr  4a. The following fee(s)  I ssue Fee	iate assignee category or		(B) RESIDENCE: (CITY rinted on the patent):  b. Payment of Fee(s): (Plest A check is enclosed.	Individual 🗖 Co	orporati	on or other private grou	<u> </u>
Publication Fee (No small entity discount permitted)  Advance Order - # of Copies			Payment by credit card. Form PTO-2038 is attached.  The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
5. Change in Entity Sta	tus (from status indicated s SMALL ENTITY state		☐ b. Applicant is no lon	gor claiming SMA	II EN'	FITY status, See 27 CE	P 1 27(a)(2)
NOTE: The Issue Fee an	d Publication Fee (if rea		d from anyone other than t				
Authorized Signature				Date			
				_			
This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this bu. Virginia 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the O NOT SEND FEES OR	on is required to obtain or 1.14. This collection is es 7 depending upon the individe Chief Information Offic COMPLETED FORMS T	retain a benefit by timated to take 12 yidual case. Any coer, U.S. Patent and O THIS ADDRESS	the pub minutes omment Traden S. SEN	lic which is to file (and is to complete, including is on the amount of tim nark Office, U.S. Depar D TO: Commissioner fo	by the USPTO to process) gathering, preparing, and e you require to complete trment of Commerce, P.O. or Patents, P.O. Box 1450,

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450

P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/792,055 03/02/2004		Wei Guang Lu	X-1556 US	4741
24309 75	90 03/21/2008		EXAM	INER
XILINX, INC		COX, CASSANDRA F		
ATTN: LEGAL D	EPARTMENT	ART UNIT	PAPER NUMBER	
2100 LOGIC DR SAN JOSE, CA 95	124		2816 DATE MAILED: 03/21/200	8

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 886 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 886 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	10/792,055	LU, WEI GUANG
Notice of Allowability	Examiner	Art Unit
	CASSANDRA COX	2816
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this or other appropriate communical IGHTS. This application is subjection	s application. If not included ation will be mailed in due course. <b>THIS</b>
1. This communication is responsive to RCE filed on 02/06/06	<u>8</u> .	
2. ☑ The allowed claim(s) is/are <u>1,4-15 and 18-22</u> .		
3. ☐ Acknowledgment is made of a claim for foreign priority ur  a) ☐ All b) ☐ Some* c) ☐ None of the:  1. ☐ Certified copies of the priority documents have  2. ☐ Certified copies of the priority documents have	e been received. e been received in Application N	o
3. Copies of the certified copies of the priority do	cuments have been received in	this national stage application from the
International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4.   A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	IENT of this application. itted. Note the attached EXAMII	NER'S AMENDMENT or NOTICE OF
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st he submitted	
(a) ☐ including changes required by the Notice of Draftspers		PTO-948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date	•	
(b) ☐ including changes required by the attached Examiner's  Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1	s Amendment / Comment or in t	
each sheet. Replacement sheet(s) should be labeled as such in t	he header according to 37 CFR 1.	121(d).
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT</li> </ol>		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 Notice of Inform	nal Patent Application
<ol> <li>□ Notice of References Cited (PTO-692)</li> <li>□ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>	6. ☐ Interview Sumn	• •
3. ☑ Information Disclosure Statements (PTO/SB/08),	Paper No./Mai 7. ☐ Examiner's Am	l Date
Paper No./Mail Date <u>02/08/06</u> 4.  Examiner's Comment Regarding Requirement for Deposit		tement of Reasons for Allowance
of Biological Material	9. ☐ Other	

Application/Control Number: 10/792,055 Page 2

Art Unit: 2816

### **DETAILED ACTION**

#### Information Disclosure Statement

1. The information disclosure statement (IDS) submitted on 02/06/08 is being considered by the examiner.

## Allowable Subject Matter

- 2. Claims 1, 4-15, and 18-22 are allowed.
- 3. The following is an examiner's statement of reasons for allowance: Claims 1, 4-7, 15, and 18-22 are allowed because the closest prior art of record fails to disclose a circuit wherein the plurality of intermediate phase shift digital delay lines comprises a ninety, one hundred and eighty, and two hundred and seventy degree phase shift digital delay line in combination with the rest of the limitations of the claims. Claims 8-14 are is allowed because the closest prior art of record fails to disclose a circuit including a first and second multiplexer as disclosed in the claims in combination with the rest of the limitations of the claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

# Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CASSANDRA COX whose telephone number is

Application/Control Number: 10/792,055 Page 3

Art Unit: 2816

(571)272-1741. The examiner can normally be reached on Monday-Friday from 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Drew Richards can be reached on 571-272-1736. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Cassandra Cox/ Primary Examiner, Art Unit 2816